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CENTRAL INTELLIGENCE AGENCY

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COUNTRY Yugoslavia

REPORT

SUBJECT The Rudjer Boskovic Atomic Energy Institute, Zagreb / Sketches of location and facilities.

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two sketches of the Rudjer Boskovic Atomic Energy Institute, Bilenicka 56, Zagreb, and the accompanying legend in English. Sketch #1 is a freehand drawing showing the general location and relationship of the various buildings of the Institute. Sketch #2 is a freehand drawing showing somewhat greater detail of most of the buildings which appear in Sketch #1. Neither sketch is drawn to scale.

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Atom-Institut RUDER BOSKOWIĆ in ZAGREB, Jugoslavien

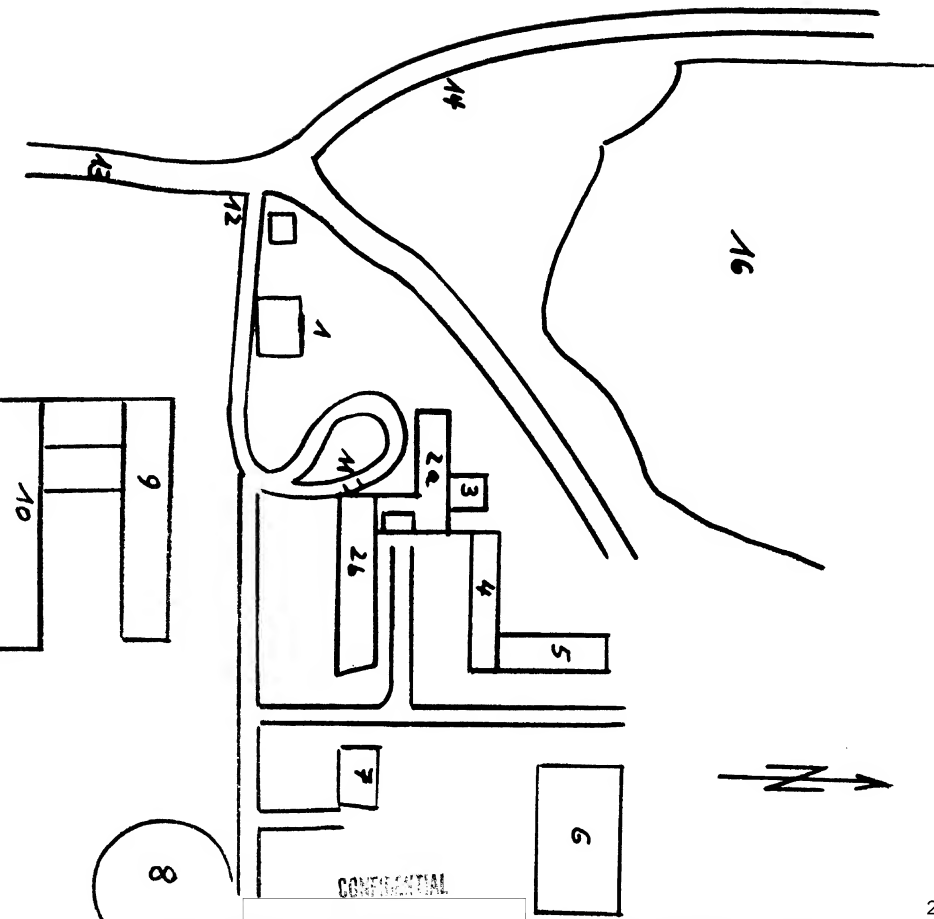
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Attachment 20.

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KEYS TO YUGOSLAV MAP SKETCHESKey to Sketch 1

1. Old House
- 2a. Physical Science Building and Administration ↘
- 2b. Laboratories
3. Quarters for Drivers
4. Small Workshop
5. Boilerhouse with Coal Storage Space
6. Large Workshop
7. ~~Casino~~ Recreation Hall with Kitchen
8. Cyclotron
9. Building under Construction (Physical Chemistry)
10. Building under Construction (Biology Department)
11. Main entrance
12. Entrance
13. Bujenicka Street
14. Mirogojska Street
15. ~~in the~~ Direction ^{to} of Zagreb
16. Mirogoj Cemetery

Explanation of Sketch 2

1. Old House

This building is to be converted to an administration building.

- 2a. Physical Science and Administration Building (40 - 50 x 15 meters, one-story)

The physical science building is composed of a basement containing a storeroom, parking areas, machine room, and a battery-filling area equipped with one LINDE apparatus for making liquid air (at temperatures as low as -160 degrees centigrade). A large hall is to house the cyclotron, but it is still empty. A smaller hall contains the neutron generator with a 200-kilovolt linear accelerator with a deuterium beam on heavy ice (D 2 O). Neutrons of about

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[redacted]

2.3 million electron volts are generated by the nuclear reactions. The basement also includes a laboratory for Geiger counters with vacuum facilities and oscillographs, a constant-temperature room, and two rooms for radium and beryllium used in fast neutron physics; in these rooms there are square depressions covered with heavy lead plates.

The first floor includes a TRACHT laboratory (biochemical) and a laboratory for physiological research, consisting of six rooms where special experiments on rats are carried on to investigate protection from radioactivity. It also includes two lecture halls for 200-300 persons each, built in the form of amphitheatres.

The second floor contains a large library which is stocked on a continuing basis with specialized foreign periodicals and literature. [redacted] the nuclear physics library ~~fully~~ complete, based on present

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scientific standards. Also on the second floor is a laboratory for general physical sciences, equipped with oscillographs, measuring instruments of all kinds, and tools, where Physicist ^{from} TOMAC works on metal evaporation; a small electron laboratory where Engineer ^{from} PRAETEC experiments; and the laboratory of Dr. ^{Borah} LEONITIC, head of the group on high energy physics, who ^{at present} is constructing a WILSON cloud chamber ~~at the present time~~, in accordance with an available English model [redacted] (No information is available on the size of the chamber.) In another part of this floor is the institute's administration. An underground tunnel connects Building 2a to Building 9.

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2b. Laboratories

The basement contains only storerooms for spare parts, equipment of all kinds, and tools.

The first floor houses the laboratory for nuclear photographic plates,

[redacted] ^{is} it, equipped with 8 or 9 microscopes of the best quality

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[redacted] which contain ~~represent~~ the newest features, ^{specifically} ~~specialized~~ for nuclear photographic plates.

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(sic)
The refrigerator for developing nuclear photographic plates is also in this laboratory. There is also a dark room in an isolated area; a room with an electron microscope [redacted] and a Zeiss microscope with cold cathode; a laboratory for measuring electrical capacitance with dipoles; five rooms for low-voltage current installations; and an X-ray laboratory for determining the structure of crystals.

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On the second floor, there is a spectroscopy laboratory, a laboratory for microphotometry, a vacuum laboratory, several rooms for theoretical physics, a laboratory where the wife of Professor ^{Wladen} PAJIC works on radiation protection, and a spectroscopy laboratory for RAMAN effects.

3. Quarters for Drivers

4. Small workshop, 40 x 12 [meters], equipped with rotary lathes, small drills, work benches, and carpentry [facilities].

5. Boilerhouse with coal storage area, which centrally heats all installations of the institute.

6. Large workshop, 50 x 20 meters, equipped with a traveling crane, engine lathes, shaping machines, heavy drills, milling [machinery], and a complete forge.

Recreation Hall

7. ~~Casino~~ with Kitchen

8. Cyclotron

A dugout has been built in the terrain which slopes southward and a building constructed in the dugout, so that the cyclotron is protected on three sides by the hill. The building is still under construction and is to go into operation the beginning of 1957. The cyclotron will generate 16 million electron volts. Also, in this building, a hot laboratory is to be built for the chemical processing of isotopes. A laboratory for the mathematics group under Doctor Engineer ^{from} BOSANAC is also in this building.

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9. Building still under construction, 40 x 15 meters, where the physical chemistry group under Doctor ^{K.}ILANOVIC will work on experiments in uranium production and allied processes, among other things.

10. Building still under construction, 40 x 15 meters, where the biology department is to be housed.

The buildings will be supplied with power from the city network by means of cross-country power lines. They will also have their own direct-current power installation.

The entire area is enclosed with a fence and may be entered only with institute identification, which must be shown at the entrance to UDBa officials. However, security is not taken too seriously, and employees of the institute can receive visits from their families. Security responsibilities exercised by UDBa officials are restricted chiefly to checking identification papers at the entrance.

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